

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

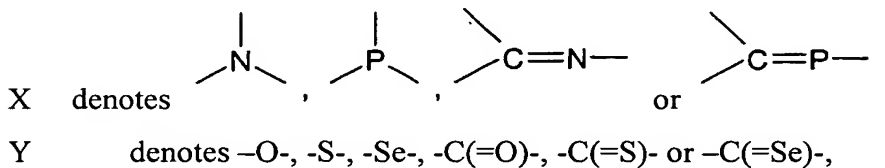
1. (Original)Process for the preparation of organic salts containing bis(perfluoroalkyl)-phosphinate anions comprising at least the reaction of a tris(perfluoroalkyl)-phosphine oxide with an alcohol and an organic base which is more strongly basic than the alcohol.
2. (Original)Process for the preparation of organic salts containing bis(perfluoroalkyl)-phosphinate anions according to Claim 1,
characterised in that the organic base employed is a compound of the general formula (1)



or of the general formula (2)



in which



R denotes -H for Y ≠ O and where, in the case of the formula (2), all R cannot simultaneously be H,
straight-chain or branched alkyl having 1-20 C atoms,
straight-chain or branched alkenyl having 2-20 C atoms and one or more double bonds,
straight-chain or branched alkynyl having 2-20 C atoms and one or more triple bonds or
saturated, partially or fully unsaturated cycloalkyl having 3-7 C atoms, in particular phenyl,
which may be substituted by alkyl groups having 1-6 C atoms,

where the substituents R are in each case identical or different,

where the substituents R may be bonded to one another in pairs by a single or double bond,

where one or more, but not all, the substituents R may be partially or fully substituted by halogens, in particular -F and/or -Cl, or partially by -CN or -NO₂,

and where one or two non-adjacent carbon atoms of the substituent R may be replaced by atoms and/or atom groups selected from the group -O-, -C(O)-, -C(O)O-, -C(O)NH-, -C(O)NR'-, -S-, -S(O)-, -S(O)NH-, -S(O)NR'-, -S(O)O-, -S(O)₂-, -S(O)₂O-, -S(O)₂NH-, -S(O)₂NR'-, -N=, -N=N-, -NH-, -NR'-, -PH-, -PR'-, -P(O)R'-, -P(O)R'-O-, -O-P(O)R'-O- and -PR'₂=N- where R' = non-, partially or perfluorinated C₁- to C₆-alkyl, C₃- to C₇-cycloalkyl, unsubstituted or substituted phenyl or an unsubstituted or substituted heterocycle.

3. (Currently Amended)Process according to Claim 1 ~~or 2~~,

characterised in that the organic base employed is a compound selected from the group (C₂H₅)₃N, (C₂H₅)₂NH, (C₂H₅)₃P, (C₂H₅O)₃P, (C₄H₉)₃P, CH₃-S-CH₃, (CH₃)₂N-C(O)-N(CH₃)₂, C₆H₅-Se-C₆H₅, guanidine, pyridine, imidazole, N-methylimidazole, benzoxazole, benzothiazole, pyrrolidine, piperidine, piperazine, aniline, N,N-dimethylaniline, benzylamine, N-ethylbenzylamine or diphenyl sulfide.

4. (Currently Amended)Process for the preparation of organic salts containing bis(perfluoroalkyl)phosphinate anions according to claim 1 ~~one or more of Claims 1 to 3~~, characterised in that the alcohol employed is an aliphatic alcohol.

5. (Currently Amended)Process according to claim 1 ~~one or more of Claims 1 to 4~~, characterised in that the alcohol employed is a compound selected from the group methanol, ethanol, isopropanol, n-propanol, butanol, hexanol and benzyl alcohol.
6. (Currently Amended)Process according to claim 1 ~~one or more of Claims 1 to 4~~, characterised in that the alcohol employed is a fluorinated aliphatic alcohol.
7. (Currently Amended)Process according to claim 1 ~~one or more of Claims 1 to 4~~, characterised in that the alcohol employed is an unsaturated alcohol.
8. (Currently Amended)Process for the preparation of organic salts containing bis(perfluoroalkyl)phosphinate anions according to claim 1 ~~one or more of Claims 1 to 7~~, characterised in that the tris(perfluoroalkyl)phosphine oxide employed is a tris(perfluoroalkyl)phosphine oxide in which the three perfluoroalkyl groups are identical or different.
9. (Currently Amended)Process for the preparation of organic salts containing bis(perfluoroalkyl)phosphinate anions according to claim 1 ~~one or more of Claims 1 to 8~~, characterised in that the tris(perfluoroalkyl)phosphine oxide employed is a tris(perfluoroalkyl)phosphine oxide in which the perfluoroalkyl groups contain 1 to 12 C atoms and are straight-chain or branched.
10. (Currently Amended)Process according to Claim 8 ~~or 9~~, characterised in that the tris(perfluoroalkyl)phosphine oxide employed is a compound selected from the group $(\text{CF}_3)_3\text{P}(\text{O})$, $(\text{C}_2\text{F}_5)_3\text{P}(\text{O})$, $(\text{C}_3\text{F}_7)_3\text{P}(\text{O})$ or $(\text{C}_4\text{F}_9)_3\text{P}(\text{O})$.

11. (Currently Amended) Process for the preparation of organic salts containing bis(perfluoroalkyl)phosphinate anions according to Claim 1 ~~one or more of Claims 1 to 10,~~ characterised in that the reaction is carried out at a temperature of -20°C to 200°C.
12. (Currently Amended) Use of the organic salt containing a bis(perfluoroalkyl)phosphinate anion prepared according to claim 1 ~~one or more of Claims 1 to 11~~ as ionic liquid.
13. (Currently Amended) Use of the organic salt containing a bis(perfluoroalkyl)phosphinate anion prepared according to claim 1 ~~one or more of Claims 1 to 11~~ as phase-transfer catalyst or as surfactant.
14. (Currently Amended) Use of the organic salt containing a bis(perfluoroalkyl)phosphinate anion prepared according to claim 1 ~~one or more of Claims 1 to 11~~ as conductive salt in electrochemical cells.
15. (Currently Amended) Use of the organic salt containing a bis(perfluoroalkyl)phosphinate anion prepared according to claim 1 ~~one or more of Claims 1 to 11~~ as plasticiser.